

Call for Papers

IEEE Aerospace and Electronic Systems Magazine

Special Issue on: Selected Methods and Techniques for Intelligent Systems for Space

Information technology has progressively grown in importance to space exploration efforts and today it often dominates the costs and schedules of space mission projects. This Special Issue aims to emphasize current and emerging IT practice and challenges for future space missions. All aspects of the space mission are of interest, including flight systems, ground systems, science data processing, engineering and development tools, operations, and telecommunications. The entire IT lifecycle of mission development is considered.

In 2017, the latest edition of the IEEE International Conference on Space Mission Challenges for Information Technology (SMC-IT) took place. SMC-IT'17 was a forum to gather system and software engineers, scientists, and other practitioners with the objective of advancing information technology for space missions. Best papers presented at the Conference, addressing recent advances, are invited to submit their work to this special issue of the AESS magazine. Prospective authors should be aware that IEEE practices suggest that there must be substantive differences between journal/magazine articles and the conference publications that they may have been based on.

The topics of interests include but are not limited to:

- Intelligent Spacecraft
- Data Analytics for Advanced Instruments
- Robotic Manufacturing and Assembly of Large Space Structures
- Advanced Computing and Big Data
- Robotics for Exotic Mission Destinations
- Space Networking
- On-Ground Control (e.g. mission planning)

Manuscripts should be submitted using the manuscript submission web site for IEEE Aerospace and Electronic Systems Magazine at <http://sysaes.msubmit.net>. Manuscripts will be peer reviewed according to the standard IEEE AES process.

Important Dates:

- Manuscript submission deadline: 1 September 2018 ~~31 July 2018~~
- First review completed: 15 November 2018
- Revised manuscript due: 15 December 2018
- Second review completed: 15 January 2019
- Final manuscript due: 15 February 2019

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